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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/470,377	12/22/1999	MASATO NISHIKAWA	TAIYO40.001A	, 6066
20995	7590 03/22/2005		EXAM	INER
	MARTENS OLSON &	LESPERANO	CE, JEAN E	
2040 MAIN STREET FOURTEENTH FLOOR			ART UNIT	PAPER NUMBER
IRVINE, CA	92614		2674	

DATE MAILED: 03/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		11/4			
	Application No.	Applicant(s)			
	09/470,377	NISHIKAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Jean E Lesperance	2674			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS, cause the application to become ABANI	be timely filed 0) days will be considered timely. 5 from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 04 October 2004.					
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.			
Disposition of Claims	•				
4) ☐ Claim(s) 1-14,16-18 and 20-22 is/are pending 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-14,16-18 and 20-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	r election requirement.				
10)⊠ The drawing(s) filed on <u>12/22/1999</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) bè held in abeyance.	See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the Ex	aminer. Note the attached O	ffice Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Appl ity documents have been red (PCT Rule 17.2(a)).	ication No ceived in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		mary (PTO-413) ail Date mal Patent Application (PTO-152)			

DETAILED ACTION

1. The amendment and request for reconsideration filed on 10/4/2004 is entered and claims 1-14, 16-18 and 20-22 are pending.

2. The indicated allowability of claims 3-9, 12-14, 20 and 21 is withdrawn in view of the newly discovered reference(s) to Kunimatsu et al.. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-10, 12, 13, 16-18 and 20-22 are rejected under 35 USC 102 (e) as being unpatentable over US Patent # 6,198,475 ("Kunimatsu et al.").

As for claim 1, Kunimatsu et al. teach a display device Fig.2 (2); a touch operation information Fig.2 (1) wherein the touch operation position on the input pad 3 can be directly recognized by touching the protruded brackets 4a-4c by a finger and it is also acceptable to form concave portions or concavities 40 (Fig.9) that are formed on the input pad 3 of the touch operation information

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output apparatus 1; the display device 2 includes a display mechanism 2a, of which a main component is a microcomputer which inherently has a control means where the microcomputer 23 is connected so as to receive the input of the on-off signals from the touch switch 14 and each operation switch 21 (column 4, lines 5-7) wherein button display portions 28a for navigation function selection are displayed at 8 points on edge portions of the map screen 28.

These button display portions 28a correspond to the positions of the protruding brackets 4b and 4c among the protruding brackets 4 that exist at 8 points on both sides of the input pad 3, and blind operation of the button display portions 28a is possible by using the protruding brackets 4b and 4c (column 4, lines 32-39) wherein the operation function items are superposed on said image.

As for claim 2, Kunimatsu et al. teach it is also acceptable to form concave portions or concavities 40 (Fig.9) that are formed on the input pad 3 of the touch operation information output apparatus 1.

As for claim 3, Kunimatsu et al. teach a display device Fig.2 (2); a touch operation information Fig.2 (1) wherein the touch operation position on the input pad 3 can be directly recognized by touching the protruded brackets 4a-4c by a finger and it is also acceptable to form concave portions or concavities 40 (Fig.9) that are formed on the input pad 3 of the touch operation information output apparatus 1; the display device 2 includes a display mechanism 2a, of which a main component is a microcomputer which inherently has a control means where the microcomputer 23 is connected so as to receive the input of the on-off signals from the touch switch 14 and each operation switch 21

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(column 4, lines 5-7) wherein the formation of concave portions or concavities 40 (Fig.9) is designed to continuously extend in a predetermined direction on the touch operation face of the touch operation information.

As for claim 4, Kunimatsu et al. teach a concave portions or concavities 40 shown in Figure 9 where the concave can be extended continuously which is why they call it concave portions.

As for claim 5, Kunimatsu et al. teach vertical direction optical axes in the figure 5 and horizontal direction optical axes in the same figure which are placed under the touch operation information which includes the protruding brackets which form the concave portions Fig.9 (40). Since the vertical direction and horizontal direction intersect with each other then the concave portions are as well intersect with each other.

As for claim 6, Kunimatsu et al. teach the concave portion Fig.9 (40) where the concave portion has a limit to stop and that is the discontinuous at the intersecting point therebetween.

As for claim 7, Kunimatsu et al. teach a display device Fig.2 (2); a touch operation information Fig.2 (1) wherein the touch operation position on the input pad 3 can be directly recognized by touching the protruded brackets 4a-4c by a finger and it is also acceptable to form concave portions or concavities 40 (Fig.9) that are formed on the input pad 3 of the touch operation information output apparatus 1; the display device 2 includes a display mechanism 2a, of which a main component is a microcomputer which inherently has a control means where the microcomputer 23 is connected so as to receive the input of

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the on-off signals from the touch switch 14 and each operation switch 21 (column 4, lines 5-7) wherein the formation of concave portions or concavities (L and T) 40 (Fig.9) is designed to continuously extend in the upper side of the touch operation information and in the lower end side of the touch operation information.

As for claim 8, Kunimatsu et al. teach the formation of concave portions or concavities 40 (Fig.9) is designed to continuously extend in a predetermined in the upper side and lower side direction on the touch operation face of the touch operation information.

As for claim 9, Kunimatsu et al. teach the formation of concave portions or concavities 40 (Fig.9) is designed to continuously extend in a predetermined direction on the touch operation face of the touch operation information.

As for claim 10, Kunimatsu et al. teach the touch operation position with respect to the input pad 3 can be recognized by touching the protruded brackets 4a-4c by a finger. Accordingly, unlike the input pad 3 which has a planar surface, the driver can perform a blind operation with respect to the touch operation information output apparatus 1 (column 4, lines 48-54).

As for claim 12, Kunimatsu et al. teach a display device Fig.2 (2); a touch operation information Fig.2 (1) wherein the touch operation position on the input pad 3 can be directly recognized by touching the protruded brackets 4a-4c by a finger and it is also acceptable to form concave portions or concavities 40 (Fig.9) that are formed on the input pad 3 of the touch operation information

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output apparatus 1 wherein the input pad is divided into plural bumps 4a to 4c with discontinuous shaped at boundary position between neighboring bumps.

As for claim 13, Kunimatsu et al. teach the protruding brackets have different shapes depending on their respective positions on the input pad 3 and have different angle to each other (See Figure 1, 4a to 4c).

As for claim 16, Kunimatsu et al. teach a display device Fig.2 (2); a touch operation information Fig.2 (1) wherein the touch operation position on the input pad 3 can be directly recognized by touching the protruded brackets 4a-4c by a finger and it is also acceptable to form concave portions or concavities 40 (Fig.9) that are formed on the input pad 3 of the touch operation information output apparatus 1.

As for claim 17, Kunimatsu et al. teach button <u>display</u> portions 28a for navigation function selection are displayed at 8 points on edge portions of the map screen 28. These button <u>display</u> portions 28a correspond to the positions of the protruding brackets 4b and 4c among the protruding brackets 4 that exist at 8 points on both sides of the input pad 3, and blind operation of the button <u>display</u> portions 28a is possible by using the protruding brackets 4b and 4c (column 4, lines 32-39) where the image being overlapped the operation function items.

As for claim 18, Kunimatsu et al. teach button <u>display</u> portions 28a for navigation function selection are displayed at 8 points on edge portions of the map screen 28. These button <u>display</u> portions 28a correspond to the positions of the protruding brackets 4b and 4c among the protruding brackets 4 that exist

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at 8 points on both sides of the input pad 3, and blind operation of the button display portions 28a is possible by using the protruding brackets 4b and 4c (column 4, lines 32-39) wherein a relative position in the image and a relative position on the touch operation face correspond with each other.

As for claim 20, Kunimatsu et al. teach a display device Fig.2 (2); a touch operation information Fig.2 (1) wherein the touch operation position on the input pad 3 can be directly recognized by touching the protruded brackets 4a-4c by a finger and it is also acceptable to form concave portions or concavities 40 (Fig.9) that are formed on the input pad 3 of the touch operation information output apparatus 1 wherein button display portions 28a for navigation function selection are displayed at 8 points on edge portions of the map screen 28.

These button display portions 28a correspond to the positions of the protruding brackets 4b and 4c among the protruding brackets 4 that exist at 8 points on both sides of the input pad 3, and blind operation of the button display portions 28a is possible by using the protruding brackets 4b and 4c (column 4, lines 32-39) wherein the operation function items are superposed on said image.

As for claim 21, Kunimatsu et al. teach a display device Fig.2 (2); a touch operation information Fig.2 (1) wherein the touch operation position on the input pad 3 can be directly recognized by touching the protruded brackets 4a-4c by a finger and it is also acceptable to form concave portions or concavities 40 (Fig.9) that are formed on the input pad 3 of the touch operation information output apparatus 1 wherein the touch operation position with respect to the input pad 3 can be recognized by touching the protruded brackets 4a-4c by a finger.

Accordingly, unlike the input pad 3 which has a planar surface, the driver can perform a blind operation with respect to the touch operation information output apparatus 1 (column 4, lines 48-54).

As for claim 22, Kunimatsu et al. teach a display device Fig.2 (2); a touch operation information Fig.2 (1) wherein the touch operation position on the input pad 3 can be directly recognized by touching the protruded brackets 4a-4c by a finger and it is also acceptable to form concave portions or concavities 40 (Fig.9) that are formed on the input pad 3 of the touch operation information output apparatus 1; the display device 2 includes a display mechanism 2a, of which a main component is a microcomputer which inherently has a control means where the microcomputer 23 is connected so as to receive the input of the on-off signals from the touch switch 14 and each operation switch 21 (column 4, lines 5-7) wherein button display portions 28a for navigation function selection are displayed at 8 points on edge portions of the map screen 28. These button display portions 28a correspond to the positions of the protruding brackets 4b and 4c among the protruding brackets 4 that exist at 8 points on both sides of the input pad 3, and blind operation of the button display portions 28a is possible by using the protruding brackets 4b and 4c (column 4, lines 32-wherein the operation function items are superposed on said image.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11 and 14 are rejected under 35 USC 103 (a) as being unpatentable over US Patent # 6,198,475 ("Kunimatsu et al.") in view of US Patent # 4,565,460 ("Kline").

As for claim 11, Kunimatsu et al. teach the touch operation position on the input pad 3 can be directly recognized by touching the protruded brackets 4a-4c by a finger and it is also acceptable to form concave portions or concavities 40 (Fig.9) that are formed on the input pad 3 of the touch operation information output apparatus 1. The prior art, Kunimatsu et al., teaches all the claimed limitations as recited in claim 11 with the exception of providing a recessed shape. However, Kline teaches an alpha-numeric character, and where the embossment is of a sufficient height to allow touch recognition by a blind person, as best seen, for example, in FIGS. 4a, 4b, and 5c, or is formed with a recess having the shape of an alpha-numeric character (column 3, lines 62-67). It would have been obvious to utilize the alpha numeric character as taught by Kline in the touch operation disclosed by Kunimatsu et al. because this would contribute towards increasing the speed and accuracy of an operator of any key-operated or touch operated device or system.

As for claim 14, Kline teaches an alpha-numeric character, and where the embossment is of a sufficient height to allow touch recognition by a blind person, as best seen, for example, in FIGS. 4a, 4b, and 5c, or is formed with a recess

having the shape of an alpha-numeric character (column 3, lines 62-67) wherein the characters have different height from their neighboring characters.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Lesperance whose telephone number is 571-272-7692. The examiner can normally be reached on from Monday to Friday between 8:OOAM and 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard, can be reached on 571-272-7603.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Jean Lesperance

Art Unit 2674

HANY N. JAN

PRIMARY EXAMINED